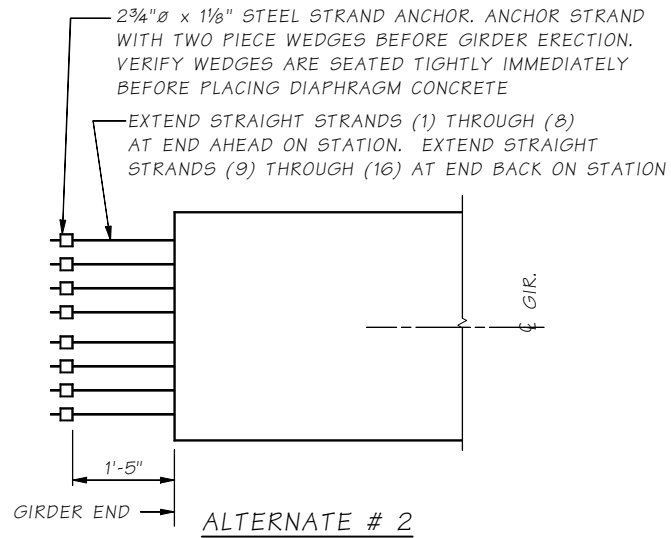
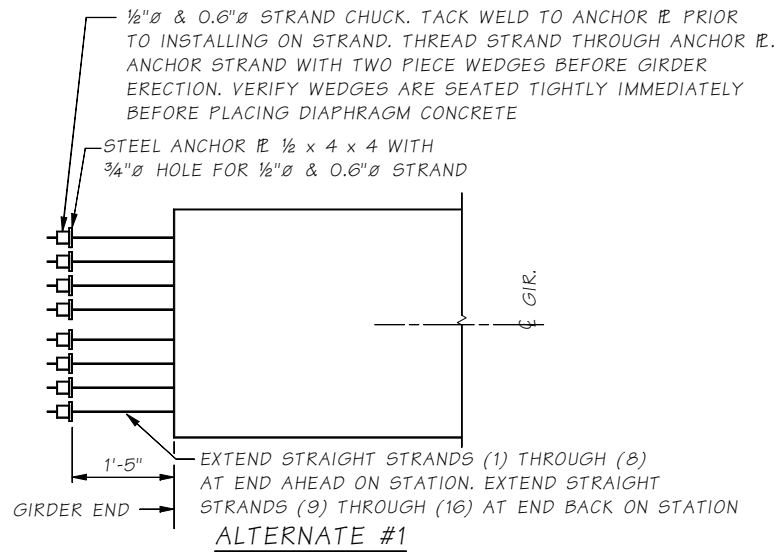


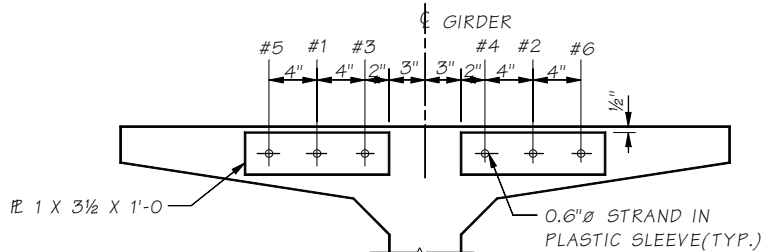
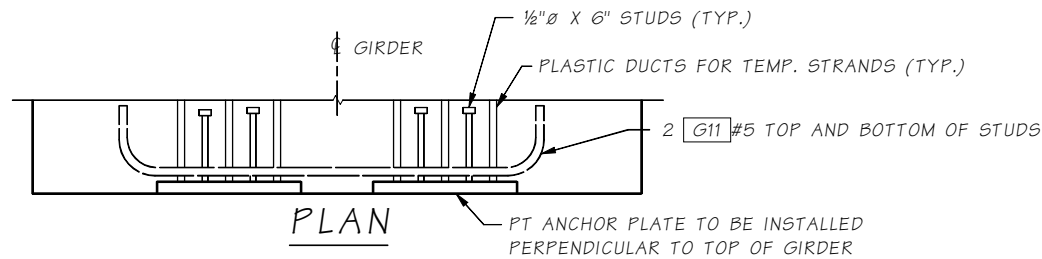
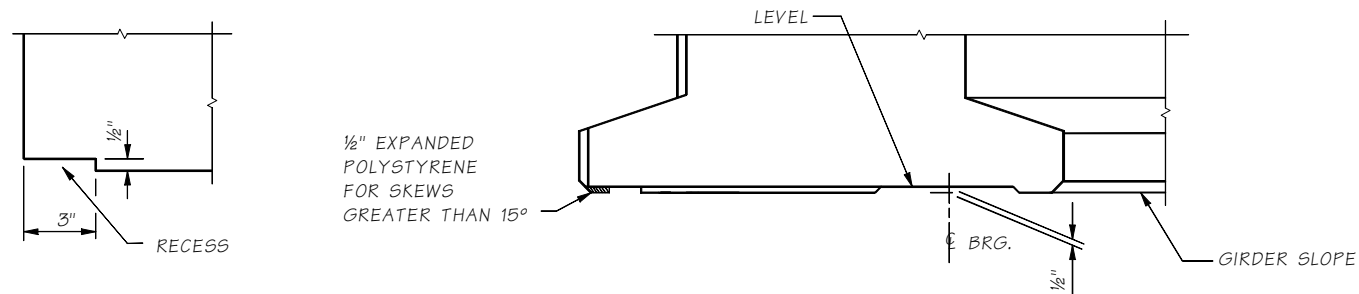
ALTERNATE STIRRUP DETAIL



STRAND EXTENSION DETAIL

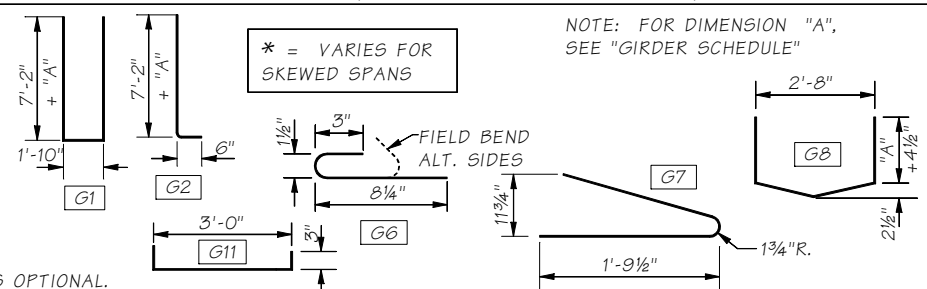
NOTES TO DESIGNER:

This strand extension detail is to be used for continuous spans at moment resisting diaphragms only. This detail is not applicable to continuous spans using hinge diaphragms. Designer shall calculate the exact number of extended straight strands needed to develop the required moment capacity at the end of the girder. This calculation shall be based on the tensile strength of the strands, the stresses imposed on the anchor, and concrete bearing against the projected area of the anchor.

TEMPORARY STRAND PATTERN
AT TOP FLANGE GIRDER END

Notes to designer	#, # ≠ DESIGNER TO MODIFY FOR SPECIFIC PROJECT					
DIAPHRAGM TYPE	END TYPE	BEARING RECESS	X	Y	Z	SAWTEETH
End diaph. on girder	A	YES	1'-10"	1'-6"	9"	YES
"L" Abutment	B	YES	0	0	0	NO
Hinge diaph.on Interm. pier	C	NO	1'-10"	1'-6"	9"	YES
Fixed diaph.@ Interm. pier	D	NO	1'-10"	ALT. 1 OR ALT. 2 STRAND EXTEN.		YES
Mult. simple spans @ Interm. pier	E	YES	0	0	0	NO
Spliced girder closure pour	F	YES	1'-10"	1'-6"	9"	YES

BENDING DIAGRAM (ALL DIMENSIONS ARE OUT TO OUT)



TO BE USED @ INTERMEDIATE
PIER ON MULTIPLE SPAN BRIDGE

ENDS AHEAD ON STATION

G5 BARS LEFT OF ϵ
B1 = 0 (G4)
B2 = 0 (G5 , G9)

ENDS BACK ON STATION

G5 BARS RIGHT OF ϵ
B1 = 1 1/2" (G4)
B2 = 3" (G5 , G9)

MARK	LOCATION	SIZE
G1	GIRDER STIRRUPS	5
G2	GIRDER END STIRRUPS	5
G3	GIRDER TOP FLANGE	5 STR.
G4	GIRDER LONGIT. FULL LENGTH	5 STR.
G5	GIRDER END LONGIT.	7 STR.
G6	GIRDER END TIES	W12 #
G7	GIRDER BOT. FLANGE TIES	3
G9	GIRDER END LONGIT.	4 STR.
G10	GIRDER STIRRUPS	4
G11	GIRDER STIRRUPS	5

#3 OR #4 MAY BE SUBSTITUTED. FIELD BENDING IS OPTIONAL.

BRIDGE
AND
STRUCTURES
OFFICE



Washington State
Department of Transportation

STANDARD
PRESTRESSED CONCRETE GIRDERS

WF83PTG GIRDER
DETAILS 3 OF 5

BRIDGE
SHEET
NO.
SHEET
OF
SHEETS

Bridge Design Engr.	M:\STANDARDS\Girders\PT Wide Flange\WF83PTG3.MAN	REGION NO.	STATE	FED. AID PROJ. NO.	SHEET NO.	TOTAL SHEETS
Supervisor		10	WASH.			
Designed By						
Checked By						
Detailed By						
Bridge Projects Engr.						
Prelim. Plan By						
Architect/Specialist	DATE	REVISION	BY	APPD		